PIONEER

Pioneer Energy Services

HIGH RESOLUTION INDUCTION
COMPENSATED DENSITY
COMPENSATED NEUTRON

Company EnCana Oil & Gas (USA) Inc.
Well Dowdy 8-2-10
Field Wattenberg
County Weld
State Colorado

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Location: API # : 05123360440000

SHL: 1114' FNL & 1102' FEL NENE
BHL: 1400' FNL & 50' FEL SENE

SEC 10 TWP 2N RGE 65W

Permanent Datum	GL	Elevation	4858
Log Measured From	KB		
Drilling Measured From	KB		

Other Services

None

Elevation

K.B. 4871
D.F. 4871
G.L. 4858

Date	October 24, 2012		
Run Number	1		
Depth Driller	7883		
Depth Logger	7881		
Bottom Logged Interval	7881		
Top Log Interval	Casing		
Casing Driller	921		
Casing Logger	921		
Bit Size	7+7/8"		
Type Fluid in Hole	Chem Gel		
Density / Viscosity	9.8 / 56		
pH / Fluid Loss	8.0 / 10.4		
Source of Sample	Flowline		
Rm @ Meas. Temp	3.12 @ 60 F		
Rmf @ Meas. Temp	2.50 @ 60 F		
Rmc @ Meas. Temp	3.75 @ 60 F		
Source of Rmf / Rmc	Measure / Calc		
Rm @ BHT	0.86 @ 232 F		
Time Circulation Stopped	2015 10/23/12		
Time Logger on Bottom	0305		
Maximum Recorded Temperature	232 F		
Equipment Number	49		
Location	Brighton, CO		
Recorded By	Clint Christensen		
Witnessed By	Roy Hunt		

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

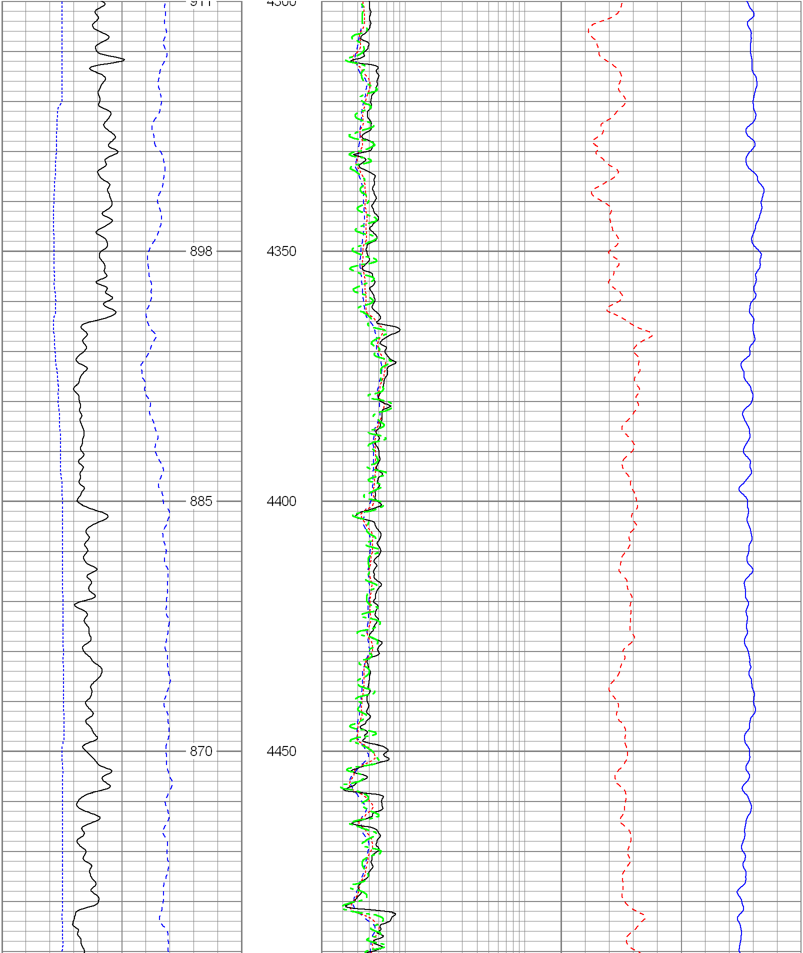
Annular volume calculated for 4.5" casing
Ensign Drilling Rig 122
Thank you for using Pioneer Energy Services.

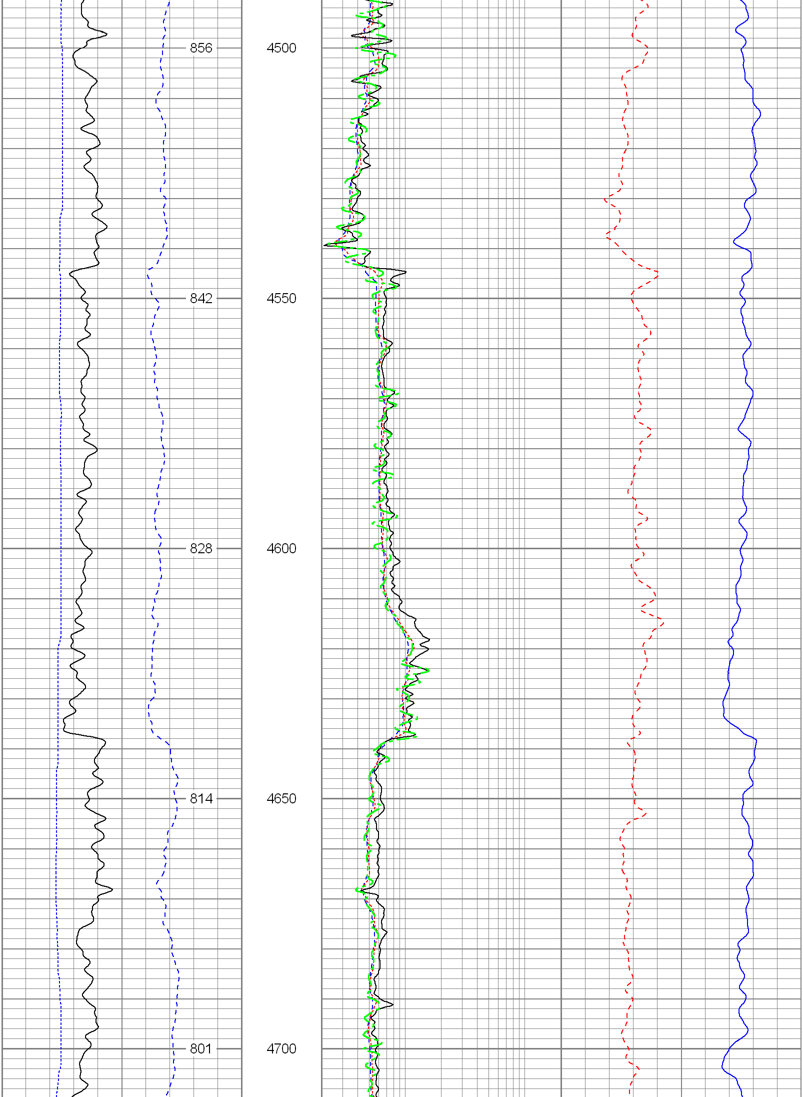
Database File:	13114.db
Dataset Pathname:	final
Presentation Format:	encana1
Dataset Creation:	Wed Oct 24 05:20:23 2012
Charted by:	Depth in Feet scaled 1:240

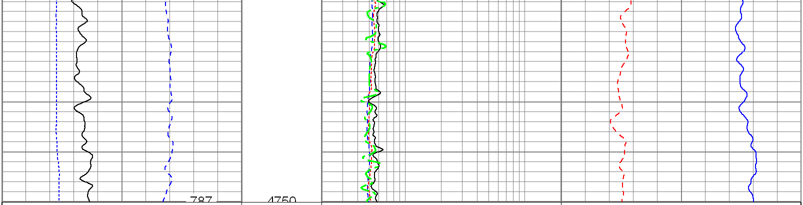
6	Density Caliper (in)	16
0	Gamma Ray (GAPI)	300
80	SP (mV)	180
	ABHV (ft3)	

2	Deep Resistivity (Ohm-m)	200
2	Medium Resistivity (Ohm-m)	200
2	Shallow Resistivity (Ohm-m)	200
2	RT (Ohm-m)	200

40	Density Porosity (pu)	0
40	Neutron Porosity (pu)	0







6 Density Caliper (in) 16		2 Deep Resistivity (Ohm-m) 200	40 Density Porosity (pu) 0
0 Gamma Ray (GAPI) 300		2 Medium Resistivity (Ohm-m) 200	40 Neutron Porosity (pu) 0
80 SP (mV) 180		2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		2 RT (Ohm-m) 200	

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Dataset Pathname: final
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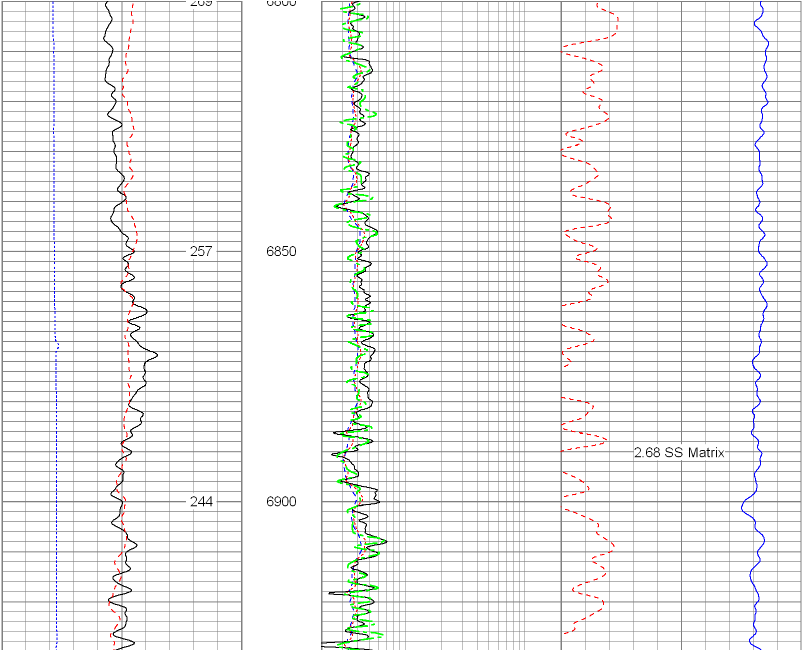
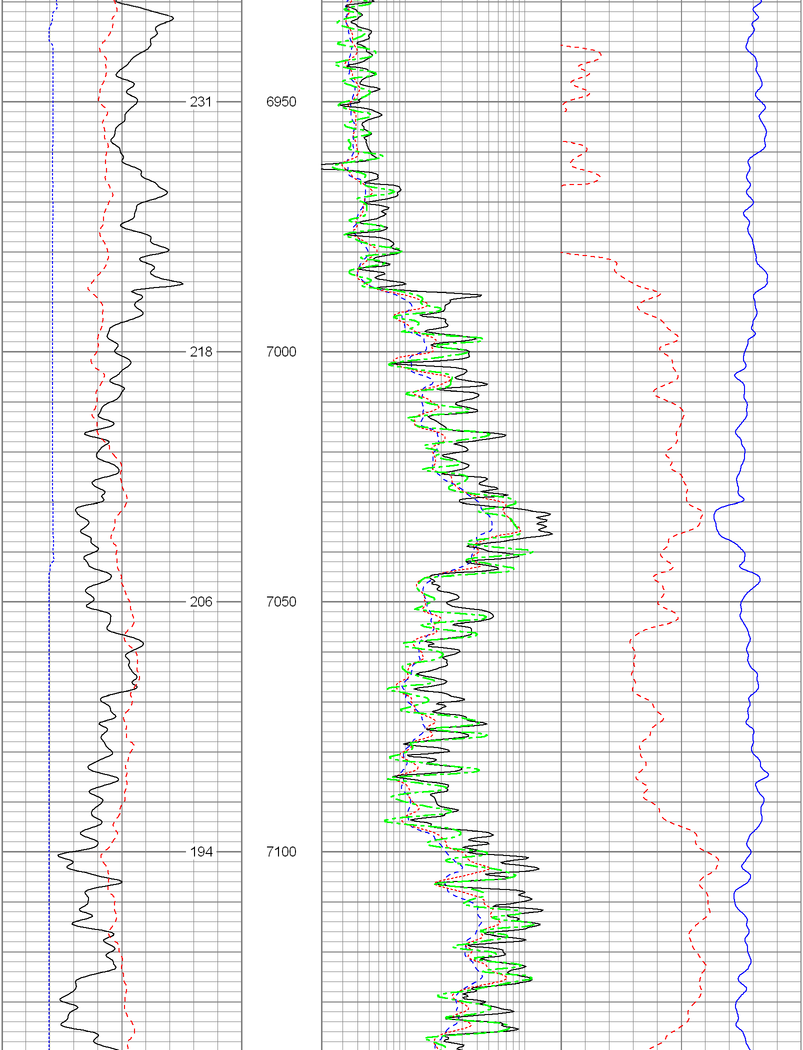
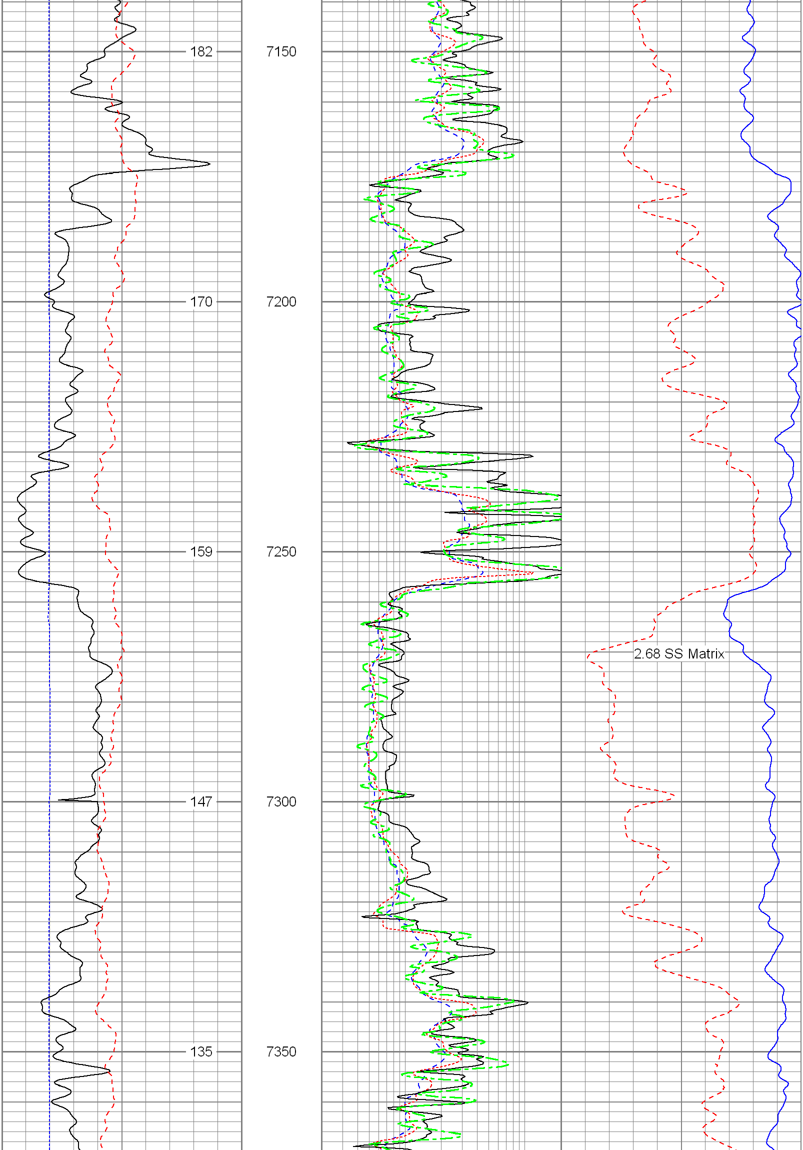
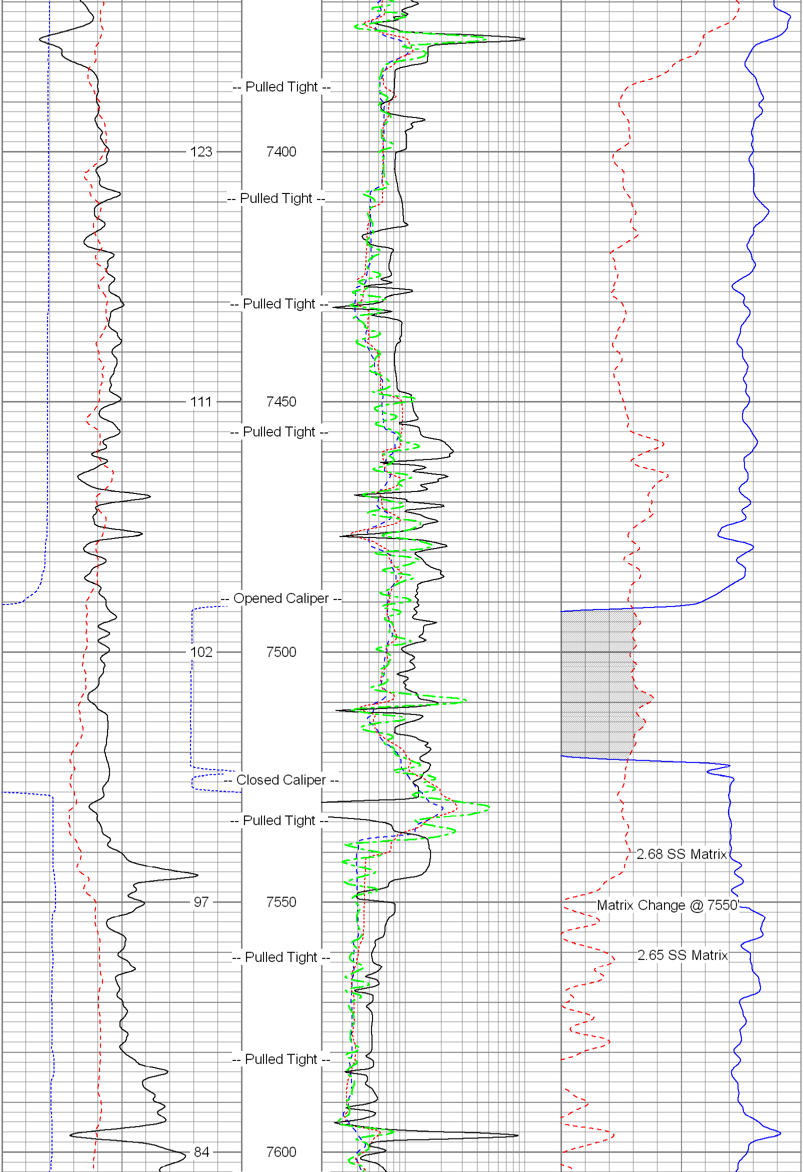
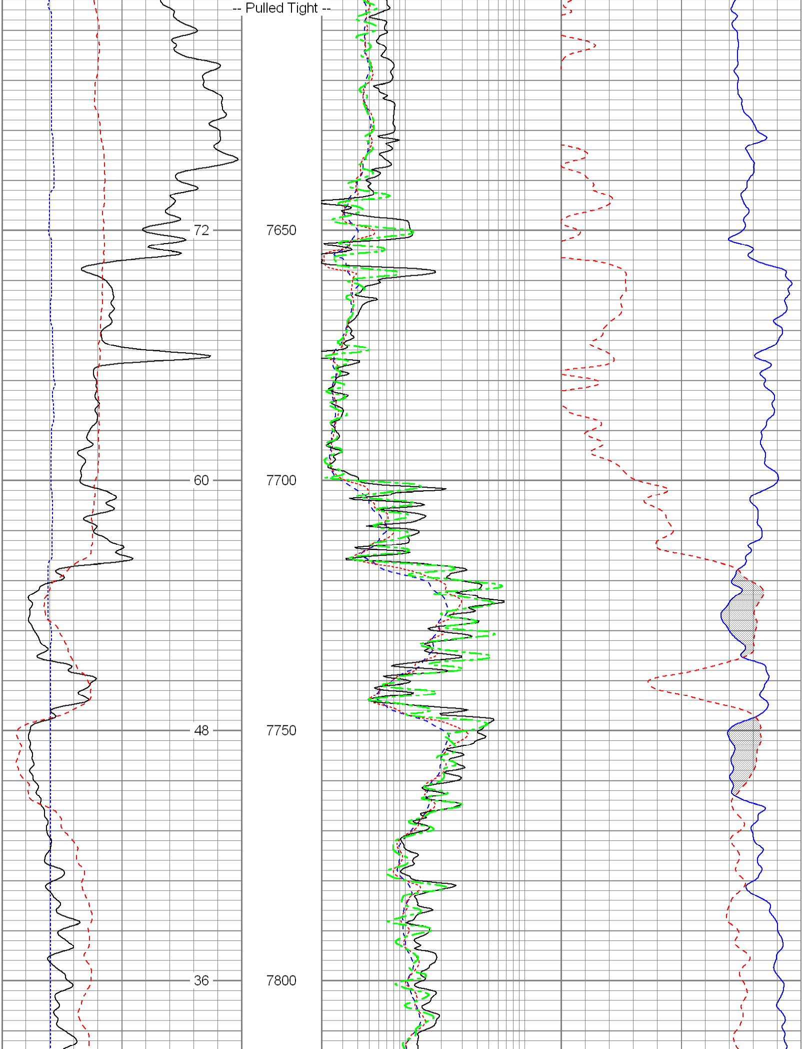
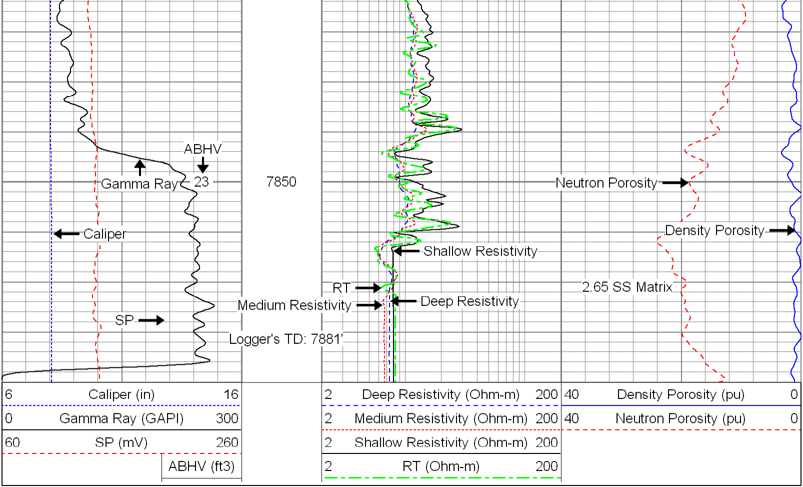
Charted by: Depth in Feet scaled 1:240

6 Caliper (in) 16		2 Deep Resistivity (Ohm-m) 200	40 Density Porosity (pu) 0
0 Gamma Ray (GAPI) 300		2 Medium Resistivity (Ohm-m) 200	40 Neutron Porosity (pu) 0
60 SP (mV) 260		2 Shallow Resistivity (Ohm-m) 200	
ABHV (ft3)		2 RT (Ohm-m) 200